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OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 01:07:03 ; Search time 755.06 Seconds
(Without alignments)
29.521 Million cell updates/sec

Title: US-09-851-670-18

Perfect score: 26

Sequence: 1 ttatttgccatcttgcagcat 26

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1026190

Minimum DB seq length: 0

Maximum DB seq length: 60

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

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20: /SIDS2/gcgdata/geneseq/geneseqn/NA1999.DAT:*
21: /SIDS2/gcgdata/geneseq/geneseqn/NA2000.DAT:*
22: /SIDS2/gcgdata/geneseq/geneseqn/NA2001.DAT:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16.2	62.3	31	22	AA129964
2	15.6	60.0	31	22	AA129962
3	15	57.7	31	22	AA129962
4	14.8	56.9	55	14	AA049390
5	14.6	56.2	36	20	AA210584
6	14.6	55.4	36	22	AA177170
7	14.4	54.6	20	21	AA244577
8	14.2	54.6	30	18	AA150769
9	14.2	54.6	39	19	AA13827
10	14.2	54.6	39	20	AA35628
11	14.2	54.6	39	20	AA303165

12	14.2	54.6	43	19	AAV16084
13	14.2	54.6	43	21	AA05400
14	14.2	54.6	43	21	AA243415
15	14.2	54.6	51	22	AAH39264
16	14.2	53.8	27	20	AA233239
17	14	53.8	29	15	AA056319
18	14	53.8	40	21	AA265203
19	14	53.8	40	22	AA244360
20	14	53.8	40	22	AA260136
21	14	53.8	41	19	AAV2534
22	13.8	53.1	19	22	AA06885
23	13.8	53.1	46	15	AA071345
24	13.8	53.1	51	22	AAH40720
25	13.6	52.3	37	21	AA06800
26	13.6	52.3	37	21	AA05024
27	13.6	52.3	37	22	AAH33906
28	13.6	52.3	37	22	AAH43985
29	13.6	52.3	37	22	AA062223
30	13.6	52.3	47	21	AA267851
31	13.6	52.3	53	21	AA062775
32	13.6	52.3	59	18	AAV92271
33	13.4	51.5	21	22	AA16565
34	13.4	51.5	31	19	AA067700
35	13.4	51.5	33	22	AA012827
36	13.4	51.5	39	21	AA050899
37	13.4	51.5	58	21	AA235318
38	13.2	50.8	19	18	AA26258
39	13.2	50.8	29	20	AA232385
40	13.2	50.8	31	19	AAV6189
41	13.2	50.8	31	22	AA060070
42	13.2	50.8	36	19	AAV32525
43	13.2	50.8	39	17	AA243675
44	13.2	50.8	41	21	AA240137
45	13.2	50.8	41	21	AA240279

ALIGNMENTS

RESULT 1	
AA129964	AA129964 standard; DNA; 31 BP.
ID	AA129964;
AC	AA129964;
XX	
DT	18-OCT-2001 (first entry)
XX	
DE	Human single nucleotide polymorphism (SNP) 49.
XX	
KW	Human; resequence; genotype; disease; forensic; paternity testing;
KW	single nucleotide polymorphism; SNP; ss.
XX	
OS	Homo sapiens.
XX	
FT	Key
FT	Variation
FT	Location/Qualifiers
FT	replacem(16,T)
FT	/*tag= a
FT	/standard_name= "single nucleotide polymorphism"
XX	
PN	WO200166800-A2.
XX	
PD	13-SEP-2001.
XX	
PE	07-MAR-2001; 2001WO-US07268.
XX	
PR	07-MAR-2000; 2000US-0187510.
XX	
PR	22-MAY-2000; 2000US-0206129.
XX	
PA	(WHED) WHITEHEAD INST BIOMEDICAL RES.
XX	
PI	Cargill M, Ireland JS, Lander ES;
XX	
DR	WPI: 2001-522952/57.

PCR primer used to
PCR primer Pax6M2
Murine c-Kit gene
Human SNP flanking
Alpha-Amy3 promote
5' primer to clone
Probe specific for
Human PRO1131 hybr
Human PRO polynuc
Random oligonucleo
SNP containing pro
Antisense primer p
Human SNP flanking
Nucleotide sequenc
Cancer detection m
Human apc gene pro
Human apc probe ap
Human adenomatous
Human map-related
Endoglucanase PCR
Staphylococcus aur
Gastric acid produ
Nucleotide fragmen
Human TGF alpha-11
Human tumour necro
Hepatitis B virus
Primer 2 for hop g
Receptor construct
bIL-12 p40 gene PC
Primer FLAG-1. SY
Trichoderma reesei
Primer-3 used for
Target sequence LP
Target probe LP280

XX Nucleic acid molecules from the human genome which include polymorphic
PT sites, useful in methods for predicting the presence, absence or
PT severity of a particular phenotype or disorder (e.g. diabetes)
PT associated with a particular genotype -
XX
PS Claim 1; Page 59; 145pp; English.
XX
CC The invention relates to the identification of nucleic acid molecules
CC (AA129513-AA131314) from the human genome which include polymorphic sites
CC which can predispose individuals to disease. Various genes from a number
CC of individuals were resequenced and single nucleotide polymorphisms
CC (SNPs) in these genes discovered. The method is useful for predicting the
CC presence, absence or severity of a particular phenotype or disorder (e.g.
CC diabetes) associated with a particular genotype. The nucleic acids
CC containing the polymorphic sites may be useful in forensics and paternity
CC testing.
XX
SQ Sequence 31 BP; 11 A; 6 C; 7 G; 7 T; 0 other;

Query Match 62.3%; Score 16.2; DB 22; Length 31;
Best Local Similarity 85.7%; Pred. No. 3.4e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 5 tgtggccatcttgcagca 25
 |||||
DB 9 tgtgaccatcttgacaagca 29

RESULT 2
AA129682/C
ID AA129682 standard; DNA; 31 BP.
XX
AC AA129682;
XX
DT 18-OCT-2001 (first entry)
XX
DE Human single nucleotide polymorphism (SNP) KCNJ2 6.
XX
KW Human; resequence; genotype; disease; forensic; paternity testing;
KW single nucleotide polymorphism; SNP; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Variation /tag=a
FT /replace(16,T)
XX /standard_name="single nucleotide polymorphism"
XX
PN WO200166800-A2.
XX
PD 13-SEP-2001.
XX
PE 07-MAR-2001; 2001WO-US07268.
XX
PR 07-MAR-2000; 2000US-0187510.
PR 22-MAY-2000; 2000US-0206129.
XX
PA (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Cargill M, Ireland JS, Lander ES;
XX
DR WPI; 2001-522952/57.
XX
PT Nucleic acid molecules from the human genome which include polymorphic
PT sites, useful in methods for predicting the presence, absence or
PT severity of a particular phenotype or disorder (e.g. diabetes)
PT associated with a particular genotype -
XX
PS Claim 1; Page 40; 145pp; English.
XX
CC The invention relates to the identification of nucleic acid molecules

CC (AA129513-AA131314) from the human genome which include polymorphic sites
CC which can predispose individuals to disease. Various genes from a number
CC of individuals were resequenced and single nucleotide polymorphisms
CC (SNPs) in these genes discovered. The method is useful for predicting the
CC presence, absence or severity of a particular phenotype or disorder (e.g.
CC diabetes) associated with a particular genotype. The nucleic acids
CC containing the polymorphic sites may be useful in forensics and paternity
CC testing.
XX
SQ Sequence 31 BP; 9 A; 6 C; 8 G; 8 T; 0 other;

Query Match 60.0%; Score 15.6; DB 22; Length 31;
Best Local Similarity 81.8%; Pred. No. 6.3e+02;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 ttatgtggccatcttgcaca 22
 |||||
DB 30 TTACAGTGCCATCTTCTTCA 9

RESULT 3
AA1297498
ID AA1297498 standard; DNA; 51 BP.
XX
AC AA1297498;
XX
DT 11-JUN-2001 (first entry)
XX
DE Opri gene amplifying primer.
XX
KW Bacteriophage; pseudovirion; phagemid; pathogen; antibacterial;
KW camel; Opri; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO200121817-A1.
XX
PD 29-MAR-2001.
XX
PE 22-SEP-2000; 2000WO-EP09277.
XX
PR 24-SEP-1999; 99EP-0402340.
PR 03-NOV-1999; 99US-0433404.
XX
PA (VLAAS) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
XX
PI Muyldermans S, Silence K, Steyaert J, Toreele E;
XX
DR WPI; 2001-257995/26.
XX
PD New genetically modified bacteriophage, pseudovirion or phagemid
PT capable of entering host cell by binding of its artificial ligand to
PT artificial receptor present on host cell, useful for eliminating
PT specific bacterial population -
XX
PS Example 11; Page 35; 69pp; English.
XX
CC The invention provides a genetically modified bacteriophage, pseudovirion
CC or phagemid (1) capable of entering a host cell by binding of its
CC artificial ligand (AL) to an artificial receptor (AR) present on the host
CC cell. (1) is useful for detecting and/or eliminating a specific bacterial
CC population, by AR-AL interaction, and to screen an antigen and/or
CC antibody library. (1) is useful for selecting AR-AL interactions. A kit
CC comprising (1) is useful for simultaneous in vivo panning of antibody or
CC antibody fragment library or antigenic sequences library. (1) is useful
CC for specific elimination of pathogenic bacteria, e.g., Aeromonas,
CC Enterococcus, Legionella, Listeria, Neisseria, etc and for screening a
CC host cell, displaying a bait against a library of bacteriophages/
CC pseudovirions/phagemids displaying the preys. Sequences AA1297497-498
CC represent PCR primers for amplifying the gene coding for Opri.
XX
SQ Sequence 51 BP; 7 A; 16 C; 13 G; 15 T; 0 other;

XX Bacillus sp.
XX WO200116349-A1.
XX 08-MAR-2001.
XX 21-AUG-2000; 2000MO-DK00461.
XX 01-SEP-1999; 99DK-0001220.
XX 12-JAN-2000; 2000DK-0000035.
XX (NOVO) NOVOZYMES AS.
XX Pedersen S, Vang Hendriksen H;
XX WPI: 2001-257704/26.
XX Preparation of maltose and modified starch, useful e.g. for paper
XX coating and in food processing, by treating starch with modified
XX Bacillus maltogenic amylase
XX Example 1; Page 90; 99pp; English.
XX The present invention relates to preparation of maltose and/or
XX modified starch by treating starch with a variant of a maltogenic
XX amylase. The method is used to produce high or low maltose
XX syrups or specialty syrups, useful e.g. in baking and brewing. Also
XX used to make starch for use in coating/sizing paper and in food products
XX (beverages, beverage flavour concentrates and flavouring agents), as a
XX fat substitute and to make maltose for use e.g. in intravenous feeding
XX solutions or as intermediate for the sweetener maltitol.
XX Sequence 36 BP; 10 A; 6 C; 11 G; 9 T; 0 other;
SQ
Query Match 56.2%; Score 14.6; DB 22; Length 36;
Best Local Similarity 81.0%; Pred. No. 1.8e+03;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY 5 ttgtgcacatcttgccagca 25
||| | ||||| |||||
Db 31 TCTTGAGATCTTTATCCAGCA 11
RESULT 7
AAZ44577
ID AAZ44577 standard; DNA; 20 BP.
XX
AC AAZ44577;
XX
DT 07-APR-2000 (first entry)
XX
DE Newcastle disease virus Lasota primer p1898-
XX
KW Avian-Paramyxovirus; infection; lentogenic; F protein; vaccine;
KW respiratory disease; gastrointestinal disease; poultry pathogen;
KW local immunity; primer; ss.
XX
OS Newcastle disease virus.
XX
PN WO9966045-A1.
XX
PD 23-DEC-1999.
XX
PF 17-JUN-1999; 99MO-NL00377.
XX
PR 19-JUN-1998; 98EP-0202054.
XX
PA (DIEN-) STICHTING DIENST LANDBOUWKUNDIG ONDERZOE.
XX
PI Peeters BPH, De Leeuw OS, Koch G, Gielkens ALJ;
XX

DR WPI: 2000-106102/09.
XX
XX New avian paramyxovirus cDNA, useful for production of vaccine against
XX Newcastle disease virus
XX
XX Disclosure; Page 78; 115pp; English.
XX
XX This invention describes a novel avian-paramyxovirus cDNA (1) which
XX comprises a nucleic acid sequence corresponding to the 5' terminal
XX end of the genome of avian-paramyxovirus allowing the generation of
XX an infectious copy of avian-paramyxovirus. The cell line is useful for
XX the production of infectious lentogenic NDV (Newcastle Disease Virus)
XX without the addition of exogenous proteolytic activity. Also it is
XX possible to generate a stable transfected cell line that expresses the
XX wild-type F protein in the virus envelope therefore providing infectious
XX particles, useful in the form of a vaccine, especially against
XX respiratory and/or gastrointestinal diseases. NDV can be easily cultured
XX to very high titers in embryonated eggs. Mass culture of embryonated
XX eggs is relatively cheap. NDV vaccines are relatively stable and can be
XX simply administered by mass application methods e.g. drinking water or
XX by spraying or by aerosol formation. The natural route of infection is
XX by the respiratory and/or gastrointestinal tract which are also the
XX major routes of infection of many other poultry pathogens. NDV can induce
XX local immunity despite the presence of circulating maternal antibody.
XX AAZ44527-244609 and AAZ44618-244650 represent primers used in the
XX isolation of the NDV strain Lasota genome.
SQ
Sequence 20 BP; 4 A; 4 C; 6 G; 6 T; 0 other;
SO
Query Match 55.4%; Score 14.4; DB 21; Length 20;
Best Local Similarity 93.8%; Pred. No. 2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 6 gtggcacatcttgctc 21
||||| |||||
Db 5 gtggcacatcttgctc 20
RESULT 8
AAT50769/C
ID AAT50769 standard; cDNA; 30 BP.
XX
AC AAT50769;
XX
DT 24-SEP-1997 (first entry)
XX
DE Ovine IL-12 40 kD subunit, reverse primer.
XX
XX Cytokine; ovine; sheep; interleukin-5; interleukin-12; IL-5; IL-12;
KW livestock; cow; stress; transport; vaccine adjuvant; veterinary;
KW cancer; immunosuppression; allergy; reproductive system; growth;
KW early maturity; antibody; diagnosis; immunopotentiator; PCR; amplify;
KW early haematopoietic progenitor cell; cytotoxic cell; thymocyte;
KW secretion; IgM; IgA; bacterial endotoxin; gamma-interferon; ss.
XX
OS Synthetic.
XX
PN WO9700321-A1.
XX
PD 03-JAN-1997.
XX
PF 14-JUN-1996; 96MO-AU00360.
XX
PR 27-OCT-1995; 95AU-0006244.
XX
PR 14-JUN-1995; 95AU-0003502.
XX
PA (CSIR) COMMONWEALTH SCI & IND RES ORG.
XX
PI Seow H, Wood P;
XX
DR WPI: 1997-07528/07.
XX

PT Nucleic acid encoding ovine interleukin-5 or -12 - used as vaccine
 PT adjuvants and to treat or prevent microbial infections in livestock
 XX
 PS Example 5; Page 27; 78pp; English.

CC The sequences given in AAT50760-69 are primers which were used to
 CC amplify the sequences encoding ovine interleukin-5 (IL-5), and
 CC interleukin-12 (IL-12) 35 kD subunit (partial and full length sequence)
 CC and the 40 kD subunit. Ovine IL-5 or IL-12 are used to treat and/or
 CC prevent infections in livestock (esp. cows and sheep), particularly where
 CC the animals are stressed, e.g. during transport. IL-5 and IL-12 can also
 CC be used as adjuvants in vaccines for veterinary use (paric. weakly
 CC immunogenic subunit or synthetic peptide vaccines). They may also be used
 CC to treat cancer, immunosuppression and allergy, to enhance/suppress the
 CC reproductive system and to promote growth or early maturity. Optionally
 CC interleukin can be delivered from constructs or delivery cells and
 CC antibodies are useful in enzyme immunoassays for rapid diagnosis of
 CC infection. The interleukins are immunopotentiators, especially IL-5
 CC promotes growth of early hematopoietic progenitor cells and generation
 CC of cytotoxic cells from thymocytes, also it stimulates production and
 CC secretion of IgM and IgA (in synergism with bacterial endotoxin).
 CC IL-12 induces production of gamma-interferon by, and proliferation
 CC of, T and NK cells and increases the (non-)specific cytolytic
 CC lymphocyte response. The genetic constructs can also be used for
 CC in vitro production of IL-5 or -12.

XX Sequence 30 BP; 8 A; 11 C; 8 G; 3 T; 0 other;

Query Match 54.6%; Score 14.2; DB 18; Length 30;
 Best Local Similarity 84.2%; Pred. No. 2.7e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 tggccatcttgcagca 25
 ||| ||||| ||||| |||
 DB 30 TGGGCATCTGTGCTGCA 12

RESULT 9

AAV13827/c
 ID AAV13827 standard; DNA; 39 BP.

AC AAV13827;

XX 14-MAY-1998 (first entry)

DE Primer for canine IL-12 P40 subunit cDNA.

XX Canine; interleukin-12 P40 subunit; IL-12 P40 subunit; antitumour;
 KM antiviral; vaccine adjuvant; PCR primer; ss.

XX Synthetic.

OS Canis sp.

PN JP10036397-A.

PD 10-FEB-1998.

XX 08-NOV-1996; 96JP-0296789.

XX 23-MAY-1996; 96JP-0128104.

PR 08-NOV-1995; 95JP-0289729.

XX (TORA) TORAY IND INC.

PA WPI; 1998-174914/16.

XX Canine interleukin 12 - comprises P40 and P35 subunits; useful in
 PT veterinary medicine, e.g. antitumour, antiviral and vaccine adjuvant
 PT activities are expected

XX Example 2; Page 6; 12pp; Japanese.

CC The present sequence is a primer for a cDNA encoding a canine
 CC interleukin-12 (IL-12) P40 subunit. A canine IL-12 comprising a P40
 CC and P35 subunit is capable of inducing an antiviral activating
 CC factor and the expression of class II MHC molecules in canine
 CC tumour cells, stimulating proliferation of canine blastogenic
 CC lymphocytes and activating canine leukocytes to inhibit canine
 CC tumour cells. The canine IL-12 can be used in veterinary medicines,
 CC e.g. antitumour, antiviral and vaccine adjuvant activities are
 CC expected.

XX Sequence 39 BP; 10 A; 14 C; 8 G; 7 T; 0 other;

Query Match 54.6%; Score 14.2; DB 19; Length 39;
 Best Local Similarity 84.2%; Pred. No. 2.7e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 tggccatcttgcagca 25
 ||| ||||| ||||| |||
 DB 33 TGGGCATCTGTGCTGCA 15

RESULT 10

AAV35628/c
 ID AAV35628 standard; cDNA to mRNA; 39 BP.

AC AAV35628;

XX 09-JUL-1999 (first entry)

DE PCR primer for nucleic acid encoding canine interleukin-12 (IL-12).

XX Interleukin-12; IL-12; dog; cat; immune disease; CaIL12; heterodimer;

KW tumour; skin disease; infectious disease; allergic disease;

KM PCR primer; ss.

XX Synthetic.

OS Canis sp.

PN JP1106350-A.

PD 20-APR-1999.

XX 15-MAY-1998; 98JP-0133345.

XX 07-AUG-1997; 97JP-0213755.

PR 16-MAY-1997; 97JP-0127690.

XX (TORA) TORAY IND INC.

XX WPI; 1999-308068/26.

XX A prevention and treating agent containing interleukin 12 (CaIL12) -
 PT for prevention and treatment of dog and cat immune diseases

XX Example 2; Page 7; 16pp; Japanese.

XX PCR primers AAV35627-28 were used to amplify nucleic acid encoding a
 CC canine interleukin-12 (IL-12). The specification describes a method
 CC for the prevention and treatment of dog and cat immune diseases.
 CC The treatment used an agent comprising dog IL-12 (CaIL12) proteins
 CC to form a heterodimer. The agent is useful for preventing and treating
 CC dog and cat immune diseases, including tumours, skin diseases,
 CC infectious diseases and allergic diseases.

XX Sequence 39 BP; 10 A; 14 C; 8 G; 7 T; 0 other;

Query Match 54.6%; Score 14.2; DB 20; Length 39;
 Best Local Similarity 84.2%; Pred. No. 2.7e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 tggccatcttgcagca 25

DB 33 TGGGCACTCTGTCTCTGCA 15

RESULT 11
AA03165/c
ID AAX03165 standard; DNA: 39 BP.

AC AAX03165;
DT 30-MAR-1999 (first entry)

DE PCR primer used to amplify a 990 bp fragment of canine interleukin 12.
XX
XX Canine; interleukin 12; IL-12; feline; immunological disease; tumour;
XX skin disease; viral infection; allergic disease; breast tumour;
XX oesinophilic granuloma; epidermoid tumour; skin tumour; lipoma;
XX othematoma; pneumoedema; skin soft pedicled soft tumour; anal tumour;
XX otitis externa; dermatitis; eczema; fungal skin disease; pyoderma;
XX allergic dermatitis; nettle rash; traumatic dermatitis; hair loss;
XX dog parvovirus infection; distemper virus; cat plaque virus infection;
XX feline leukaemia; allergy; pollinosis; PCR primer; ss.

OS Synthetic.
XX Canis sp.

PN WO9851327-A1.

PD 19-NOV-1998.

PF 07-MAY-1998; 98WO-TP02031.

PR 16-MAY-1997; 97JP-0127690.

PA (TORA) TORAY IND INC.

PI Okano F, Satoh M, Yamada K;

DR WPI; 1999-070100/06.

PT New therapeutic and prophylactic agents - comprise
PT genetically-engineered canine interleukin 12, used to treat, e.g.
PT canine and feline immunological diseases

PS Example 2; Page 12; 45pp; Japanese.

CC PCR primers AAX03164-65 were used to amplify a canine interleukin 12
CC (IL-12) protein cDNA sequence. The IL-12 protein can be used in
CC therapeutic or prophylactic agents. The agents can be used to prevent
CC and treat canine and feline immunological diseases including dog and
CC cat tumours, skin diseases, viral infections and allergic diseases,
CC especially tumours, breast tumour, oesinophilic granuloma, epidermoid
CC tumour, skin tumour, lipoma, othematoma, pneumoedema, skin soft
CC pedicled soft tumour and anal tumour; skin diseases, otitis externa,
CC dermatitis, eczema, fungal diseases of the skin, pyoderma, allergic
CC dermatitis, nettle rash, traumatic dermatitis and hair loss; infections;
CC dog parvovirus infection and distemper virus; cat plaque virus infection
CC and feline leukaemia, and allergic diseases, e.g. pollinosis.

XX Sequence 39 BP; 10 A; 14 C; 8 G; 7 T; 0 other;

Query Match 54.6%; Score 14.2; DB 20; Length 39;
Best Local Similarity 84.2%; Pred. No. 2.7e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 7 tggcactcttgcagca 25
||| ||||| ||||| |||
DB 33 TGGGCACTCTGTCTCTGCA 15

RESULT 12
AAV16084

ID AAV16084 standard; DNA: 43 BP.

AC AAV16084;

DT 21-MAY-1998 (first entry)

DE PCR primer used to identify PAX6 mutations in mice.

KW Mutation: mutational screening; recessive; phenotypic alteration;
KW single strand conformation polymorphism; SSCP; PAX6 gene; aniridia;
KW PCR primer; amplify; ss.

OS Synthetic.
XX Mus sp.

PN WO9744485-A1.

PD 27-NOV-1997.

PF 16-MAY-1997; 97MO-GB01354.

PR 17-MAY-1996; 96GB-0010355.

PA (HEXA-) HEXAGEN TECHNOLOGY LTD.

PI Goodfellow PN;

DR WPI; 1998-018536/02.

PT Identification of mutation(s) in genes of interest - without prior
PT observation of phenotypic alteration in the mutated organism or cell
XX
XX Example 11; Page 58; 66pp; English.

CC PCR primers AAV16059-76 were used to identify PAX6 mutations in mice
CC using the method of the invention. The method comprises testing a
CC nucleic acid sample from a mutated organism for a mutation in
CC a gene of interest without the prior observation of a phenotypic
CC alteration in the mutated organism resulting from the mutation.
CC PAX6 mutations lead to a variety of anterior segment malformations most
CC commonly characterised by eye development defects broadly described as
CC aniridia. The disease is dominant. A population of male mice were
CC treated with EMV to provide a source of mutant PAX6 and a heterozygotic
CC F1 generation produced. Fluorescent single strand conformation
CC polymorphism (SSCP) is utilised to identify those members of the F1
CC population carrying PAX6 mutations. The method provides mutational
CC screening based on genomic and genetic techniques rather than on
CC phenotypic observation. The method identifies and characterises genes via
CC mutagenesis to identify genes encoding products which may have
CC therapeutic benefit. The method also identifies the presence of mutations
CC in a gene which do not rely solely upon prior matching of a gene with a
CC disease. Heterozygotic organisms can also be screened to identify those
CC carrying a mutation in a copy of a gene of interest even though the gene
CC may be recessive and therefore causes no phenotypic alteration.

XX Sequence 43 BP; 12 A; 14 C; 7 G; 10 T; 0 other;

Query Match 54.6%; Score 14.2; DB 19; Length 43;
Best Local Similarity 84.2%; Pred. No. 2.7e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 5 tgtggcactctgtgcag 23
| | | | | | | | | | |
DB 12 tatgaccacttcttcag 30

RESULT 13
AAA05400
ID AAA05400 standard; DNA: 43 BP.
XX
XX AAA05400;
XX

DT	19-MAY-2000	(first entry)
XX		
DE	PCR primer Pax6km200r used in Pax6 ampImer generation.	
XX		
KW	PCR primer; Sox-2; Sox-3; T gene; Tyrosinase; MGF; Sry; C-kIt; Tryp-1;	
RW	Pax-6; mutation detection; therapeutic target identification; mouse;	
XX	mast cell growth factor; ss.	
OS	Mus sp.	
PN	US6015670-A.	
PD	18-JAN-2000.	
PF	14-NOV-1997; 97US-0970740.	
PR	17-MAY-1996; 96US-0017824.	
PA	16-MAY-1997; 97US-0857946.	
XX	(HEXA-) HEXAGEN TECHNOLOGY LTD.	
PI	Goodfellow PN;	
DR	WPI; 2000-181139/16.	
XX		
PT	Detecting mutations in selected genes, useful e.g. for identifying	
PT	therapeutic targets or products, by analysing DNA in mutated embryonic	
PT	stem cells without phenotypic characterization -	
XX		
PS	Example 13; Column 51-52; 66pp; English.	
CC	PCR primers AAA05245-A05406 are used to generate amplimers from the	
CC	mouse Sox-3 gene, Sox-2 gene, T gene, tyrosinase gene, Tryp-1 gene, Sry	
CC	gene, MGF (mast cell growth factor) gene, C-kit gene, and the Pax-6 gene.	
CC	The primers are used in a method for the identification of a mutation in	
CC	a selected gene in a tissue without the prior observation of a	
CC	phenotypic alteration in the mutated organism or cell. The method is used	
CC	to identify mutations in a selected gene that encode products of	
CC	potential therapeutic activity or that are potential targets,	
CC	particularly where the gene of interest has been identified as a	
CC	candidate gene by positional cloning. Other applications are determining	
CC	functions of genes; detecting the range of phenotypes associated with	
CC	different mutations in a particular gene and identification of	
CC	particular mutations. Animals containing an identified mutation are used	
CC	as models for studying diseases or their treatment, and cells from them	
CC	for in vitro assessment of drug action. Interbreeding of mutant mice is	
CC	used to investigate genetic interaction in the overall phenotype.	
SO	Sequence 43 BP; 12 A; 14 C; 7 G; 10 T; 0 other;	
DT	Query Match	54.6%; Score 14.2; DB 21; Length 43;
DT	Best Local Similarity	84.2%; Pred. No. 2.7e+03;
Matches	16; Conservative	0; Mismatches 3; Indels 0; Gaps 0.
OY	5 tgtggcattcttgcacg 23 Db 12 tatgaccatcttcctccag 30	
RESULT 14		
ID	AAZ43415	
XX	AAZ43415 standard; DNA; 43 BP.	
AC	AAZ43415;	
XX		
DT	11-FEB-2000 (first entry)	
XX		
DE	Murine c-Klt gene PCR primer 32.	
XX		
KW	Screening; mutation; treatment; disease; drug discovery;	
KW	PCR primer; ss.	
XX		

OS	Mus musculus.
XX	
PN	US994075-A.
PD	30-NOV-1999.
XX	
PF	16-MAY-1997; 97US-0857946.
XX	
PR	17-MAY-1996; 96US-0017824.
XX	
PA	(HEXA-) HEXAGEN TECHNOLOGY LTD.
PI	Goodfellow PN;
DR	WPI: 2000-038255/03.
PT	Identifying a mutation in a gene of interest in an organism useful for identifying genes encoding products which may have therapeutic benefits
PS	-
XX	
CC	Example 12; Column 127-128; 70pp; English.
CC	This invention describes a novel mutational screening method based on genomic and genetic techniques to identify and characterize a mutation in a gene of interest without first selecting a phenotypic characteristic. The screening methods are useful for identifying genes encoding products which may have therapeutic benefit for treating human or animal diseases. The method can be used for the DNA mutation screening of a class or a family of genes providing a rapid assay for identifying mutant genes. The methods produce organisms which can be used for drug discovery e.g. providing a model for the study and treatment of a disease state, allow in vitro assessment of drug activity and interbreeding of mutants which allow investigation of gene interactions in the overall phenotype. A range of phenotypes associated with different mutations, and specified mutations in a gene of interest can be determined. The method can be adapted to screen for a mutation in two or more genes of interest in an organism. The methods allow mutations in a gene of interest to be identified without having to rely on matching a gene with a disease. AAZ43260-Z43421 represent PCR primers used in the method of the invention.
SQ	Sequence 43 BP; 12 A; 14 C; 7 G; 10 T; 0 other;
OY	Query Match 54.6%; Score 14.2; DB 21; Length 43; Best Local Similarity 84.2%; Pred. No. 2.7e+03; Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
DG	5 tgtggcaccctttgcccag 23 Db 12 tatgccaccttccacg 30
RESULT	15
ID	AAH39264/C
AC	AAH39264 standard; DNA; 51 BP.
XX	
AH	AAH39264;
DT	
DE	Human SNP flanking oligonucleotide SEQ ID 2060.
XX	
KM	Single nucleotide polymorphism: SNP; single nucleotide primer extension; SNEB; genotyping; agammaglobulinemia; diabetes insipidus; cancer; Leesh-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis; inflammation; forensic investigation; paternity analysis; ds.
OS	Homo sapiens.
PN	WO200129262-A2.

PD 26-APR-2001.
 XX 13-OCT-2000; 2000WO-US28436.
 XX 15-OCT-1999; 99US-0160096.
 PR (ORCH-) ORCHID BIOSCIENCES INC.
 PA Picoult-Newburg L, Pohl M;
 XX WPI; 2001-290930/30.
 DR
 XX
 PT New genotyping oligonucleotide, useful for detecting the presence,
 PT absence or identity of single polynucleotide polymorphism in a nucleic
 PT acid sample -
 XX
 PS
 XX
 Claim 1; Page 60; 83pp; English.
 CC Sequences AAH37205 - AAH4094 represent PCR primers, single nucleotide
 CC primer extension (SNPE) primers, and the sequences of regions flanking
 CC sites of single nucleotide polymorphisms SNPs. The present invention
 CC includes kits for determining the presence or absence of a SNP, using the
 CC oligonucleotides of the invention. The PCR primers are used to amplify a
 CC SNP flanking sequence, the SNP primer is used as a genotyping primer.
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by
 CC performing a single-nucleotide primer extension reaction. The
 CC oligonucleotides are useful for determining the presence, absence or
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to
 CC assess by association analysis the genotype of an individual or group of
 CC individuals, having a pathological phenotypic trait suspected of being
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.
 CC agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular
 CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic
 CC traits also include symptoms of or susceptibility to multifactorial
 CC diseases of which a component is or may be genetic such as autoimmune
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,
 CC inflammation, cancer, nervous system diseases and infection by pathogenic
 CC microorganism. The method is also useful in forensic investigations and
 CC paternity analysis. The present sequence represents a fragment of human
 CC DNA flanking the site of a single nucleotide polymorphism.
 CC
 CC
 SO Sequence 51 BP; 16 A; 14 C; 8 G; 12 T; 1 other;

Query Match 54.6%; Score 14.2; DB 22; Length 51;
 Best Local Similarity 84.2%; Pred. No. 2.8e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0.

1 ttatgtggccatcttctgt 19
 ||| ||||| ||||| ||
 35 ttgctgtggccatctttagt 17

Search completed: March 9, 2002, 01:07:04
Job time: 11950 sec